Ontario

Modular Training Standards

Operate Tipple

Program #770010

General Services Specialties Group
Module U0081

Ministry of Training,
Colleges and Universities

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Colleges and Universities

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This document is the property of the trainee/ employee named inside and represents the official record of his/her training.

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TRAINING UNIT

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U0081.0	Operate Tipple	7-9

AREAS OF COMPETENCY

COMPETENCY ANALYSIS PROFILE
OPERATE TIPPLE
ON-THE-JOB TRAINING STANDARDS
-SKILLS-

OPERATE TIPPLE **U0081.0**	Identify and respond to workplace hazards. 0081.01	Inspect and scale workplace. 0081.02	Perform pre-operational checks on tipple. 0081.03	Start up tipple. 0081.04	Conduct operational checks on tipple. 0081.05
	Dump cars. 0081.06	Bar muck. 0081.07	Shut down tipple. 0081.09		

PREFACE

This training document was developed by the Program Development and Standards Unit of the Ministry of Training, Colleges and Universities, in consultation with representatives from the Underground Hard Rock Mining industry. These Training Standards are intended to be used by trainee, trainers/instructors and companies as a "blueprint" for training or as a prerequisite for government accreditation/certification. While this training document is intended as guidelines for training, all issues might not apply in all operations.

A Basic Underground Hard Rock Miner (entry level) is a worker who has achieved accreditation in the entire Common Core Program # 770010. The Mining Tripartite Committee recommends that the employer must provide training in the entire common core for the Basic Underground Hard Rock Miner Training Program, to the worker, within the first year of employment. The prerequisite common core and specialty modules related to a specialty module must be taken before training in the specialty module, e.g Jumbo Drill *NOTE: To be trained and accredited in this module, the prerequisite modules from Program #770010 are U0000, U0001, U0002, U0004, U0006 and U0011. The other prerequisite modules, where applicable, are U0005, U0007, U0014, U0015 and U0082.* Employers have a responsibility to train workers for the work to be done.

The first three modules of Program #770010 - U0000, U0001 and U0002 are prerequisites to all other modules for the program. They must be completed before any other modules can be done and before the employee can be permitted to work underground.

Under the Occupational Health & Safety Act - R.R.O. 1990 Regulation 854, 11.3 there is an allowance for the recognition of equivalent training from other jurisdictions to Ontario training. Based on a comparison of the two programs, the Mining Tripartite Committee has deemed Quebec's Formation Modulaire du Travailleur Minier (FMTM) program to be equivalent to Ontario's Program #770010 Common Core except for specific mine orientation (U0000, Follow Surface and Underground Induction Procedures) and secondary blasting (U0006, Blast Rock). Employers should contact their local apprenticeship office for details about the requirements associated with these equivalencies.

New trainees or experienced miners must obtain accreditation in the same way. Each must demonstrate the skills specified in each Performance Objective to the described minimal acceptable standard as prescribed in each module. These demonstrations must be administered in an operating mine by a trainer designated by the company who shall follow the Performance Demonstration Guidelines approved by the Mining Tripartite Committee.

The care and maintenance of this book is the joint responsibility of the trainee and the employer. The Training Standards were developed specifically for documenting the trainee's acquisition of skills.

PREFACE - Cont'd

Areas of the Basic Underground Hard Rock Common Core including mechanical staging, drilling, rock bolting, and mucking may infringe on some speciality modules for purposes of safety and technological changes. However, accreditation in these areas of the Common Core is not intended to replace accreditation in the speciality modules.

Throughout the document the term "including" is often used. "Including" means : one or more of the items listed, but not limited to those items included in the list.

N.B. Re: Lock out and /or tag, where it is practical or possible to lock, then locking and tagging should be the norm.

NOTICE/DECLARATION FOR COLLECTION OF PERSONAL INFORMATION

1. This information is collected under the authority of the Order-In-Council Number 701/85.

2. The information is collected for the purpose of administering this modular training program within the Province of Ontario.

3. Questions regarding collection and use of this information may be directed to:

Director of Apprenticeship
Workplace Training Branch
Ministry of Training, Colleges and Universities
900 Bay Street
17th Floor
Toronto, Ontario
M7A 1L2
(416) 326-5605

IMPORTANT DIRECTIONS TO TRAINERS

Trainers instructing workers in the specialty modules for Program 770010 must meet the Trainer Qualification and Criteria Guidelines for Program #770010. They must be accredited in the Basic Common Core Underground Hard Rock program #770010 and the specialty module they will be instructing. Contact your local apprenticeship office for a copy of the Trainer Qualification and Criteria Guidelines.

The Training Standards identify skills required for this occupation and its related training program.

These Training Standards have been written in concise statements which describe how well a trainee must perform each skill in order to become competent.

In using these Training Standards, trainers will be able to ensure that the trainee is developing skills detailed for the occupation.

Trainers and trainees are required to sign off and date the skills following each successful acquisition.

Employers participating in this training program will be designated as the Signing Authority and are required to attest to successful achievement in the space provided at the end of each unit.

IMPORTANT DIRECTIONS TO THE TRAINEE

Trainee

1. It is the responsibility of the trainee to inform the local Apprenticeship Client Services office regarding the following changes:

    - change of trainee name or address;
    - transfer to a new employer;

2. Training Reports must be signed for modular trainees by a Ministry of Training, Colleges and Universities designated Signing Authority and forwarded to a local Apprenticeship Client Services office.

3. At the completion of training, the Trainee Completion Form must be completed and signed off by the Signing Authority and submitted to local Apprenticeship Client Services office.

UNDERGROUND HARD ROCK MINING SPECIALITY MODULES LISTING BY GROUPS

GROUP 1 PRODUCTION SPECIALTIES

U0051 Perform Non-Mechanized Room and Pillar Mining
U0052 Perform Mechanized Room and Pillar Mining
U0053 Perform Shrinkage Mining
U0054 Perform Regular Cut and Fill Mining
U0055aPerform Mechanical Cut and Fill Mining- Non Captive Stope
U0055bPerform Mechanical Cut and Fill Mining- Captive Stope
U0056 Perform Square Set Mining
U0057 Perform Under Cut and Fill Mining
U0058 Perform Non-Mechanized Bulk Mining
U0059 Perform Mechanized Bulk Mining

GROUP 2 DEVELOPMENT SPECIALTIES

U0016 Perform Non Mobile-Trackless Drifting
U0060 Perform Mobile Drifting
U0061 Perform Non-Mobile Track Drifting
U0062 Perform Conventional Untimbered Raising
U0063 Perform Conventional Timbered Raising
U0064 Perform Mechanized Raising
U0065 Perform Drop/Inverse Raising Mechanized/NonMechanized
U0066aPerform Shaft Sinking- Timber Lining Installation
U0066bPerform Shaft Sinking- Concrete Lining Placement
U0066cPerform Shaft Mucking
U0066dPerform Shaft Drilling and Blasting

GROUP 3 HAULAGE SPECIALTIES

U0015 Maintain Tire and Wheel Assemblies
U0017 Operate Scram Drift
U0019 Perform Track Haulage- Operate U/G haulage Train Remote Control
U0020 Perform Trackless-Haulage Operate Scoop Tram-Remote Control
U0023 Operate Front-End Loader
U0067 Perform Track Haulage- Operate U/G Haulage Train

GROUP 4 DRILLING AND BLASTING SPECIALTIES

U0069 Operate Non-Mechanized Long Hole Drill
U0070 Operate In-The-Hole Drilling
U0072 Operate Raise Bore Drill
U0089 Operate Mechanized Jumbo Drill
U0090 Operate Mechanized Long Hole Drill
U0092 Perform Mobile Bulk Blasting
U0093 Perform Non-Mobile Bulk Blasting

GROUP 3 HAULAGE SPECIALTIES - cont'd

U0068aPerform Trackless Haulage-Operate Scoop Tram Draw Point
U0068bPerform Trackless Haulage-Operate Scoop Tram Production/Development
U0091 Operate Haulage Truck

GROUP 5 GENERAL SERVICES

U0013 Operate Lifting Mechanism(s)
U0014 Operate Forklift
U0018 Operate Mechanized Rock Bolter
U0021 Operate Bulldozer
U0022 Operate Grader
U0024 Operate Utility Vehicle
U0025 Operate Mechanized Muck Conditioner
U0026 Operate Mechanized Cable Bolter
U0027 Operate Non-Mechanized Cable Bolter
U0028 Operate Scissor Lift
U0029 Operate Rock Breaker
U0033 Operate Oxyacetylene Cutting Equipment
U0035 Operate Backhoe
U0036 Operate Overhead Crane
U0074 Operate Mine Hoist- Friction or Drum
U0075 Install and Maintain Track System
U0076 Perform Fill Placement
U0077 Operate Underground Crusher
U0078 Operate Underground (Filter) Decantation System
U0079 Operate Conveyor
U0080 Install and Maintain Underground Pipe System
U0081 Operate Tipple
U0082 Install and Maintain Underground Ventilation Equipment

GROUP 6 SHAFT SERVICES

U0083 Operate Cage
U0084 Perform Shaft Maintenance
U0088 Operate Skip

GROUP 7 CONSTRUCTION SERVICES

U0085aConstruct Concrete Installations
U0085bConstruct Timber Installations
U0085cConstruct Steel Installations
U0086 Perform Shotcreting

TRAINEE COMPLETION FORM

Trainee Name _____

Print

_____

Signature

Social Insurance Number _____

The Training Unit, when completed, should be Signed off by Trainer/ Signing Authority below. Submit required documentation to your local Apprenticeship Client Services office. Any supporting documentation should also be attached.

Employer Name: _____

Address: _____

Telephone: _____

Signing Authority: _____

Signature

TRAINING UNIT COMPLETION FORM

TRAINING UNIT	TITLE	SIGNING AUTHORITY
U0081.0	Operate Tipple	_____

U0081.0 OPERATE TIPPLE

GENERAL PERFORMANCE OBJECTIVE

Operate tipple, to unload mine cars, by identifying and responding to workplace hazards; inspecting and scaling workplace; performing pre-operational checks on tipple; starting up tipple; conducting operational checks on tipple; dumping cars; barring muck; and shutting down tipple according to government legislation, company standards and manufacturer specifications.
NOTE: To be trained, and accredited, in this module the prerequisites modules from Program #770010 are U0000, U0001, U0002, U0006 and U0067 . The other prerequisite modules, where applicable, are U0004, U0013, U0019 and U0033.

PERFORMANCE OBJECTIVES

Trainer's Name (Print) _____ Trainee's Name (Print) _____

SKILLS

0081.01 Identify and respond to workplace hazards, including: ground conditions, ventilation, open holes above/ below, and housekeeping, by isolating area; and repairing and/or reporting deficiencies according to government legislation and company standards.

Date Completed _____ Trainer's Signature _____ Trainee's Signature _____

0081.02 Inspect and scale workplace, by selecting scaling bar for the specific job based on type, size and condition; fastening and connecting hoses; washing down area; setting water flow to control dust; performing scaling procedures; checking ventilation flow; and taking corrective action and/or reporting according to government legislation and company standards.

Date Completed _____ Trainer's Signature _____ Trainee's Signature _____

U0081.0 OPERATE TIPPLE - cont'd

00810.03 Perform pre-operational checks on tipple, by testing power source; checking fluid levels; following refuelling and lubricating procedures; inspecting principle components, including: side or end rotation, car stops, signal controls, locking devices, lighting, track lines, car puller, car pusher, sensors, trunnion wheels and cables, guard, automated functions and indicator lights; inspecting warning and communication systems; checking hydraulic/pneumatic system for leaks; inspecting water control systems; locking out and/or tagging; and repairing and/or reporting deficiencies according to government legislation, company standards and manufacturer specifications.

Date Completed	Trainer's Signature	Trainee's Signature
_____	_____	_____

0081.04 Start up tipple, by activating power source; using audible warning systems and signals; observing equipment operation and gauges; checking clearances and activity in area; locking out and/or tagging; and repairing and/or reporting deficiencies according to government legislation, company standards and manufacturer specifications.

Date Completed	Trainer's Signature	Trainee's Signature
_____	_____	_____

0081.05 Conduct operational checks on tipple, by monitoring gauges, load limits and meters, including: lights and warning systems; listening for unusual noises; locking out and/or tagging; and repairing and /or reporting deficiencies according to government legislation, company standards and manufacturer specifications.

Date Completed	Trainer's Signature	Trainee's Signature
_____	_____	_____

U0081.0 OPERATE TIPPLE - cont'd

0081.06 Dump cars, by communicating with co-workers, using signals; controlling traffic in the tipple area; spotting cars; controlling muck flow and dust conditions; operating indicators and controls; using fall protection, including fall arrest or travel restraint systems; complying with dumping limitations; inspecting cable guards; ensuring required ventilation; noting direction of ventilation flow and position of ventilation/fire doors; controlling dust; removing spillage and scrap; controlling drainage; monitoring water and wet muck hazards; cleaning cars and track; guarding open holes; removing hang ups; following blasting procedures; locking out and/or tagging; and repairing and/or reporting deficiencies according to government legislation, company standards and manufacturer specifications.

Date Completed	Trainer's Signature	Trainee's Signature
_____	_____	_____

0081.07 Bar muck, by selecting bars for specific job based on type, size and condition; maintaining sound footing and a clear escape way; performing barring techniques; identifying/avoiding pinch points; using fall protection, including: fall arrest or travel restraint systems; monitoring runs of muck; **observing bar limitations;** locking out and/or tagging; and repairing and/or reporting deficiencies according to government legislation, company standards and manufacturer specifications.

Date Completed	Trainer's Signature	Trainee's Signature
_____	_____	_____

0081.08 Shut down tipple, by placing tipple in designated/approved area; guarding against hazards; completing operator report; locking out and/or tagging; and repairing and/or reporting deficiencies according to government legislation, company standards and manufacturer specifications.

Date Completed	Trainer's Signature	Trainee's Signature
_____	_____	_____

	Employer's Name	Employer's Signature
	_____	_____